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as to what has been done in Germany, and especially Belgium, France and the United States.

Mr. Grant Allen also, like a busy bee, after visiting the "honey ants," takes up with "hyacinth bulbs" and then solaces himself with "a winter weed," and in the spring time discourses on "the first daffodil," and later on in the book, whether in the vernal season or no, discovers "the origin of buttercups," and later on, perhaps in some autumn number of *Knowledge*, tells us "what is a grape."

The book is what in boarding-house idiom would be styled excellent "hash," well-seasoned for the most fastidious stomach, even when called upon to digest "strange sea monsters."

STUDIES FROM THE BIOLOGICAL LABORATORY OF JOHNS HOPKINS UNIVERSITY.—This number completes the second volume of these important "studies." Among the strictly zoölogical papers are Professor E. A. Birge's notes on the development of *Panopæus sayi*, with four plates; the structure and growth of the shell of the oyster, by H. L. Osborn, with one plate; the nervous system of Porpita, by H. W. Conn and H. G. Beyer, M.D., with one plate; notes on the Medusæ of Beaufort, N. C., Part II, by Professor W. K. Brooks. Under the head of histology would come the paper by Professor A. H. Tuttle on the presence of ciliated epithelium in the human kidney.

The physiological papers are of much value; they are the following: On the effect of variations of arterial pressure on the duration of the systole and the diastole of the heart-beat, by W. H. Howell and J. S. Ely, with one plate; the action of ethyl alcohol upon the dog's heart, by Professor H. N. Martin and Lewis T. Stevens, and lastly, a reprint from the Proceedings of the Royal Society, London, of Professor Martin's paper on the direct influence of gradual variations of temperature upon the rate of beat of the dog's heart.

BULLETIN OF THE ILLINOIS STATE LABORATORY OF NATURAL HISTORY.—This is the sixth bulletin issued by this useful institution in May last, and contains four papers by Mr. S. A Forbes, the director, as follows: I. The regulative action of birds upon insect oscillations; II. The food relations of the Carabidæ and Coccinellidæ; III. The food of the smaller fresh-water fishes; and IV. The first food of the common white-fish (*Coregonus clupeiformis*). The first two papers have already been noticed in this magazine, and the entire series are fresh and valuable contributions to biology, and contain the result of extensive and patient observation.

HERRICK'S TYPES OF ANIMAL LIFE SELECTED FOR LABORATORY USE IN INLAND DISTRICTS.—This is the first part of this publication, and is devoted to the Arthropoda. The general anatomy of the larva of Corethra, of a Copepod (*Canthocamptus minutus*), and of *Gammarus limnæus* and *Hyalella dentata* are given, the student's attention being drawn to those points not requiring dissection. The figures might have been better drawn and engraved, so that the student should have a better model of such work before him, but the brochure will be useful, and we are glad to see such a publication adapted for the use of American students.

MOEBIUS AND HEINCKE'S FISHES OF THE GERMAN OCEAN.—This appears to be an excellent brief account of the marine fishes of the German ocean prepared for popular use, and issued by the Commission for the scientific investigation of the German ocean, whose headquarters are at Kiel. Every species described is accompanied by a good outline figure. There is a map showing their geographical distribution. It is published by Paul Parey, Berlin, 1833, and contains 206 pages.

RECENT BOOKS AND PAMPHLETS.

Egleston, T.—The method of collecting Flue-dust at Ems on the Lahn. Ext. Trans. Amer. Inst. Ming. Eng., 1883.

——Leaching Gold and Silver ores in the West. Ext. idem.

Bower, A.—The Bower Barff Process. Ext. idem.

Boyd, C. R.—The Ores of Cripple creek. Va. Ext. idem.

Spilsbury, E. G.—Gold Mining in S. Carolina. Ext. idem.

Coggin, F. G.—Copper Slime Treatment. Ext. idem.

Witherow, J. P.—The Blast Furnace of the Crozer Steel and Iron Company at Roanoke, Va. Ext. idem.

Troilius Magnus.—On the determination of Manganese in Spiegel, Ferro-manganese, Steel, etc. Ext. idem.

Mackintosh, J. B.—The volumetric determination of Manganese. Ext idem.

Raymond, R. W.—The Divining Rod. Ext. idem.

——The natural Coke of Chester county, Va. Ext. idem.

Stetefeldt, C. A.—The Shelf Dry Kiln. Ext. idem.

McCreath, A. S.—The Iron ores of the Valley of Virginia. Ext. idem.

Rothwell, R. P.—The treatment of Gold-bearing arsenical ores at Deloro, Ontario, Canada. Ext. idem.

Hitchcock, C H.—The geological position of the Philadelphia gneisses. Ext. idem.

Henderson, C. H.—The Copper deposits of the South Mountain. Ext. idem.

Blake, W. P.—Mining and storing Ice. Ext. idem.
All from the institute.

Hunt, T. S.—The decay of Rocks geologically considered. Ext. Amer. Jour. of Science, Sept., 1883. From the author.

Broadhead, G. C.—The Carboniferous Rocks of Eastern Kansas. Ext. Trans. St. Louis Acad. Science, 1883. From the author.

Bennett, A. W.—On the constancy of insects in their visits to Flowers. Ext. Linnean Soc. Journal, 1883. From the author.

Ryder, J. A—On the Thread-bearing Eggs of the Silversides (Menidia). Ext. Bull. U. S. Fish Commission, 1883. From the author.

Drown, T. M.—Technical Training. An address to the Alumni Association of Lehigh University, June 20, 1883. From the author.

Dollo, M. L.—Quatrième Note sur les Dinosauriens de Bernissart. Ext. du Bull. du Musée Royal d'Hist. Nat. de Belgique. 1883. From the author.